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## N84NAZ - HALLIE BROOKLYNN

### Chapter 10: Radical Expressions and Equations - Math Men

Reteaching 10-1 You can use the Pythagorean Theorem to find the length of the third side of a right triangle if you ... Solve  $a^2 + b^2 = c^2$ . Write the Pythagorean Theorem.  $a^2 + b^2 = c^2$ .  $12^2 + 18^2 = c^2$ .  $144 + 324 = c^2$ .  $468 = c^2$ .  $c = \sqrt{468}$ .  $c = 21.63$ . Substitute 12, 18, and 20 for a, b, and c. Make sure to substitute the longest length for c, the hypotenuse.

#### Jane Syltie home

The Pythagorean theorem is often used to find unknown lengths of the sides of right triangles. If the longest leg of a right triangle is labeled c, and the other two a, and b as in the image on the left, The Pythagorean Theorem states that  $a^2 + b^2 = c^2$ . Given enough information, we can solve for an unknown length.

$(10)^2 = (8)^2 + (6)^2$ .  $100 = 64 + 36$ .  $100 = 100$ . Apply the converse of Pythagorean Theorem. Since the square of the length of the longest side is the sum of the squares of the other two sides, by the converse of the Pythagorean Theorem, the triangle is a right triangle. A corollary to the theorem categorizes triangles in to acute, right, or ...

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6-1: The Polygon Angle-Sum Theorems: Explore and Reason: p.242: Try It! p.245: Practice and Problem Solving: p.249: 6-2: Kites and Trapezoids: Critique and Explain

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**Lesson 10.1 The Pythagorean Theorem and Its Converse**

Lesson 10.1 The Pythagorean Theorem and Its Converse Marking off three lengths that satisfy the Pythagorean relationship on string and pulling the string tight to form a triangle that appears to be a right triangle may have convinced you that the converse of the Pythagorean Theorem is true, but it may not help you explain why it is true.

Reteaching Special Right Triangles In a 450-450-900 triangle, the legs are the same length. hypotenuse = Problem What is the value of the variable, s? Class Date 10 2 In a 450-450-900 triangle, the hypotenuse is times the length of the leg. Divide both sides by d. Rationalize the denominator. — x hypotenuse.

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$y = -3(x + 4)^2 + 1$  Reteaching (continued) Standard Form of a Quadratic Function  $y = (x - 1)^2 - 4$   $y = (x - 2)^2 - 10$   $y = (x - 3)^2 - 49$   $y = (x - 9)^2 - 81$   $y = (x - 1)^2 - 1$   $y = (x - 5)^2 - 9$   $y = 4(x - 1)^2 - 7$   $y = 3(x - 6)^2 - 27$   $y = 2(x - 1)^2 - 3$   $y = x^2 - 6x - 10$   $y = 2x^2 - 4x - 1$  ...

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